

IN THE CLAIMS:

1. (Currently Amended) An information recording medium, comprising: a substrate; and [[a]] n recording film films for recording information ~~on n layers~~ (where n is an integer of 2 or more) provided on said substrate opposite from a light-incident side, wherein, when light is focused on the recording film ~~on the a jth layer~~ (where j is an integer that is equal to or larger than 2 while equal to or smaller than n, and not i), transmittance T_i (where i is an integer equal to or larger than 1 and yet equal to or smaller than n-1) of ~~the an ith layer~~ from the light-incident side of the recording medium fulfills satisfies the expression

$$\prod_{i=1}^{j-i} T_i^2 \geq \frac{n-j+1}{n}$$

and the transmittance of the ith layer changes when the light focuses on the recording film of the ith layer.

2. (Currently Amended) An information recording medium, comprising: a substrate; and n layers of recording film provided opposite from a light-incident side, wherein the transmittance of ~~the an ith layer~~ fulfills satisfies the expression

$$T_i \geq \sqrt{\frac{n-i}{n-i+1}}$$

when the light does not focus on the recording film of the ith layer, and the transmittance thereof is equal to or less than 50% when the light focuses on the recording film other than the recording film of the ith layer.

3. (Original) An information recording medium according to claim 1, wherein a nonlinear optical layer that changes transmittance depending on the focusing light is formed to the medium.

4. (Original) An information recording medium according to claim 3, wherein the transmittance of the nonlinear optical layer changed by the focused light returns to an original value during one disk revolution.

5. (Original) An information recording medium according to claim 3, wherein the nonlinear optical layer is formed of a thermochromic material.

6. (Original) An information recording medium according to claim 5, wherein the thermochromic material is a triphenylmethane dye.

7. (Original) An information recording medium according to claim 3, wherein the nonlinear optical layer is a layer containing at least one of oxide of Ti, V, Cr, Mn, Fe, Co, Ni, Cu.

8. (Original) An information recording medium according to claim 7, wherein the oxide is in contact with a metal or a semiconductor.

9. (Original) An information recording medium according to claim 3, wherein the nonlinear optical layer has a laminated structure having a first layer containing at

least one of oxide of Ti, V, Cr, Mn, Fe, Co, Ni, Cu, and a second layer of metal or semiconductor.

10. (Original) An information recording medium according to claim 8, wherein Fermi energy obtained by changing an optical property of the oxide of Ti, V, Cr, Mn, Fe, Co, Ni, or Cu by light irradiation is higher than Fermi energy of the metal or the semiconductor.

11. (Original) An information recording medium according to claim 3 wherein the nonlinear optical layer is a magnetic material.

12. (Original) An information recording medium according to claim 11, wherein the magnetic material contains garnet.

13. (Original) An information recording medium according to claim 11, wherein the magnetic material is a magnetic semiconductor.

14. (Original) An information recording medium according to claim 13, wherein the magnetic semiconductor contains Mn.

15. (Original) An information recording medium according to claim 14, wherein the magnetic semiconductor containing Mn contains at least one of O, S, Se, or Te.

16. (Original) An information recording medium according to claim 13,
wherein the magnetic semiconductor contains at least one of Cd, Zn, Hg, or Pb.

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17. (Original) An information recording medium according to claim 3, wherein
a metal film or a semiconductor film is provided between the recording film and the
nonlinear film, and a thickness of the metal film or the semiconductor film is equal to
or more than 0 nm and equal to or less than 50 nm.

18. (Currently Amended) An optical information recording medium,
comprising: a substrate, a first recording film, and a second recording film in a
sequence from a light-incident side, wherein a nonlinear film is provided between the
substrate and the second substrate recording film, the nonlinear film having
reflectance higher than transmittance when the light focuses while having
transmittance higher than reflectance when the light does not focus.

19. (Original) An optical information recording medium according to claim 18,
wherein the nonlinear film is placed between the first recording film and the second
recording film.
